

PATENT ABSTRACTS OF JAPAN

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(54) THERMOSETTING VARNISH

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a varnish which can give a coating film having heat resistance, adhesion, electrical insulation properties and flexibility by mixing a specified copolysilazane with a solvent.

SOLUTION: Ten (10) pts.wt. copolysilazane having a number-average molecular weight of 500-100,000, comprising structural units represented by formulas I, II and III (wherein R1, R2, R4, R5, R6 and R7 are each an alkyl, an alkenyl, a cycloalkenyl, an aryl, an aralkyl, an alkylamino or an alkylsilyl; and R3 and R8 are each a bivalent aromatic group) in such amounts that the ratio p/q is 0.01-99, and the ratio p/r is 0.01-99 (wherein (p), (q) and (r) are the numbers of moles of the respective kinds of structural units)) is mixed with 1.0-1,000 pts.wt. solvent (e.g. xylene, methyl isobutyl ketone or methyl ethyl ketone). The thermosetting temperature of the copolysilazane is desirably 300°C or above. If the thermosetting temperature needs to be lowered on account of the substrate to be coated, it can be lowered to 200°C by the addition of a crosslinking agent (e.g. tetramethoxysilane) and a metal catalyst (e.g. metal carboxylate).

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